

Rajath Devadatta Bharadwaj

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EDUCATION

- **Master of Science Computer Science - AI Specialization** Windsor, ON
University of Windsor
Courses: Intro to AI, Statistical Learning, Topics in AI, Neural Networks and Deep Learning
Sept 2022 - Present
- **Bachelor of Engineering - Computer Science** Bangalore, India
KS School of Engineering (KSSEM) - GPA:8.51
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Networking, Databases, Java
Aug 2017 - Aug 2021

PROFILE OF SKILLS

- **Languages:** Python, JAVA
- **Frameworks:** SpaCy, Streamlit, TensorFlow, PyTorch/Lightning, Django, TensorRT, Huggingface, Weights & Bias
- **Tools:** Kubernetes, Docker, GIT, NVIDIA NGC
- **Platforms:** Linux, Web, NVIDIA Jetson, Raspberry, GCP
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking

EXPERIENCE

- **Graduate Assistant** In-person
University of Windsor
Sept 2022 - Present
 - **Handling Labs:** Teaching Masters in Applied Computing (MAC) students concepts of Advanced Computing Concepts using interactive Canva slides.
- **DL Fellow** Remote
Fellowship.ai
Sept 2021 - Jan 2022
 - **Conversational AI:** Built an Athlete/Fitness coach bot using RASA. Blenderbot 2.0 was used to handle fallbacks RASA couldn't handle.
 - **Fallbacks:** Semantic Document Search or SDS was leveraged in case both these bots weren't able to convincingly answer a question.
- **AI Solution Architect** In-person
BrainGrid Technologies
Nov 2021 - Sept 2022
 - **Optimizing Inference:** Developed models on the TensorRT framework to reduce inference time loads resulting in increasing company's efficiency to implement inference by 3%.
 - **NVIDIA DGX:** Led workshop for clients on NVIDIA's DGX systems along with NGC Containers, received positive feedback on training with a business conversion around of 1%.
 - **NVIDIA Jetson:** Mentored clients on performing model inference using the Jetson Nano for edge use cases.

PROJECTS

- **Automated Trading - (DL, Reinforcement Learning, Selenium, Sentiment Analysis, Forecasting)(WIP):** Developed software to trade stocks & options market end to end without human intervention, which resulted in getting 79% of trades correct. **Tech:** Python, Streamlit, Stable Baseline-3, OpenAI - Gym, Selenium, TensorFlow, FBProphet - **November 21 - Present**
- **DL-based Gaming (Deep Learning, Computer Vision):** Architected a DL model to analyze a game's frames and predict the next move. Performed similarly to a newbie with an accuracy of 85%. **Tech:** Python, Tensorflow & OpenCV.
- **Action Recognition Tagging (Deep Learning, Computer Vision):** Recognizes activity currently occurring in a frame, achieved an accuracy of 82%, resulting in a nearly 2% increase in business revenue. **Tech:** Python, Tensorflow, openCV
- **Conversational AI (Chatbot, NLP, Blenderbot):** A chatbot that responds to all questions on sports and fitness depending on a user's answers to a few pre-programmed questions. **Tech:** Python, Rasa, Blenderbot, Huggingface
- **Autograder (Deep Learning, Computer Vision):** An LSTM-CNN model to grade mathematics answer papers. **Tech:** Python, Tensorflow, NLP, Streamlit

BLOGS/ SEMINARS & TUTORIALS

- **How does Orthogonalization relate to Machine Learning:**
- **TF.data.experimental-service:**
- **Auto Encoders using Tensorflow (SRM University, Chennai):**
- **Reinforcement Learning:**

VOLUNTEER EXPERIENCE

- **AI Lead at Google Developer Student Clubs, KSSEM** Bangalore, India
Conducted online and offline technical training impacting over 200+ students.
Sept 2020 - Sept 2021
- **Machine Learning Developement Club (MLDEVCL)** Bangalore, India
Started an ML Club to benefit undergrad students in college
Apr 2018 - Sept 2021